

## Features

- General rectification
- Low  $V_F$ ; Low  $I_R$
- High reliability

## Applications

- surface mount schottky barrier rectifier



SOD323HE

PIN	DESCRIPTION
1	Cathode
2	Anode



**Marking:14.x**  
“x” is internal code

**Maximum Ratings** (@  $T_A = 25^\circ\text{C}$  unless otherwise specified)

Parameter	Symbol		Unit
Peak Repetitive Reverse Voltage	$V_{RRM}$	40	V
RMS Reverse Voltage	$V_{RMS}$	28	V
DC Blocking Voltage	$V_{DC}$	40	V
Average Forward Output Current	$I_{F\_AV}$	1.0	A
Peak Forward Surge Current, 8.3ms Single Half Sine wave	$I_{FSM}$	30	A

## Thermal Characteristics

Parameter	Symbol		Unit
Typical Thermal Resistance **	$R_{\theta JA}$	110	$^\circ\text{C/W}$
	$R_{\theta JC}$	40	
Operating Junction Temperature Range	$T_J$	-55 ~ +125	$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$	-55 ~ +150	$^\circ\text{C}$

**Electrical Characteristics** (@  $T_A = 25^\circ\text{C}$  unless otherwise specified)

Parameter	Symbol	Test Conditions		Typ.	Max.	Unit
Instantaneous Forward Voltage <sup>*1</sup>	$V_F$	$I_F = 1.0\text{A}$	@ $T_A = 25^\circ\text{C}$	-	0.55	V
Reverse Current <sup>*2</sup>	$I_R$	Rated $V_R$	@ $T_J = 25^\circ\text{C}$	-	0.5	mA
			@ $T_J = 100^\circ\text{C}$	-	10	mA

**Ratings and Characteristic Curves** ( $T_A=25^\circ\text{C}$  unless otherwise noted)

Fig. 1 - Forward Current Derating Curve

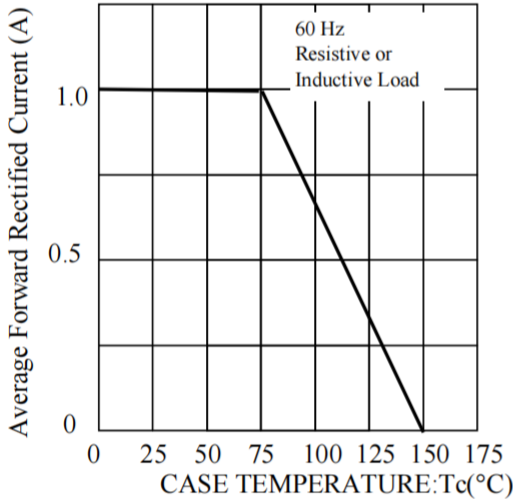


Fig. 2 - Maximum Non-repetitive Peak Forward Surge Current

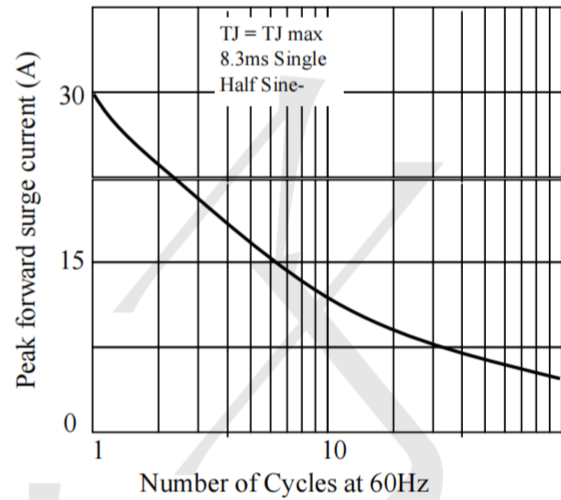


Fig. 3 - Typical Instantaneous Forward Characteristics

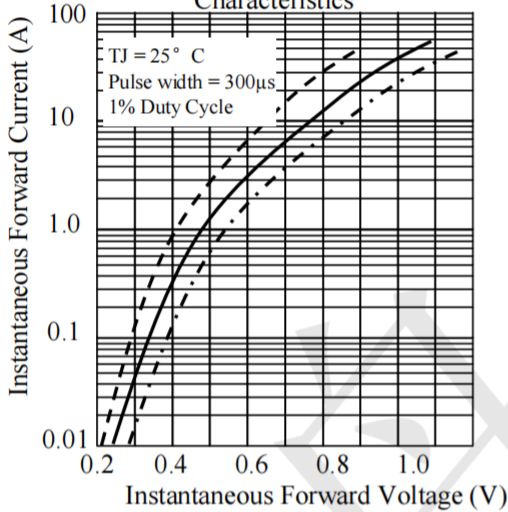


Fig. 4 - Typical Reverse Characteristics

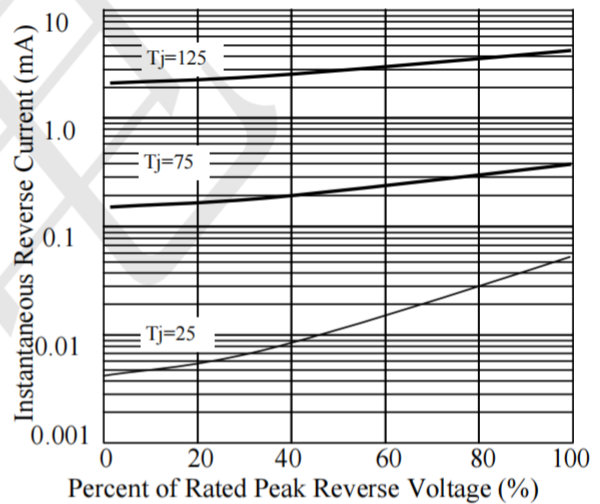


Fig. 5 - typical transient thermal impedance

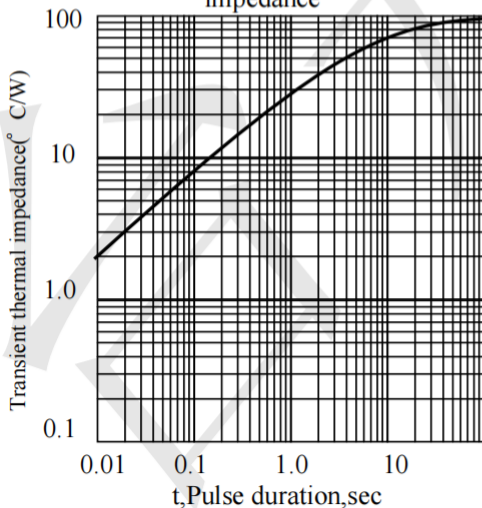
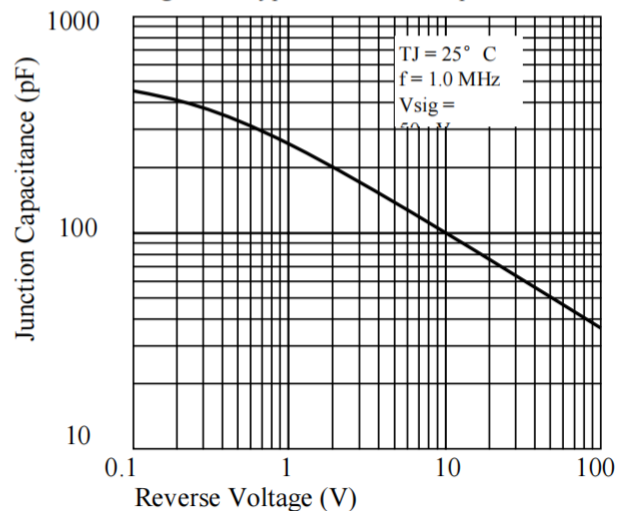
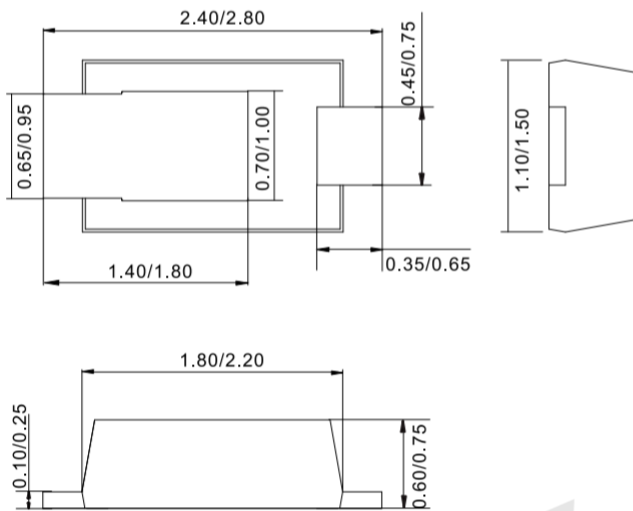


Fig. 6 - Typical Junction Capacitance



**Outline Drawing - SOD323HE (unit: mm)**



**Mounting Pad Layout-SOD323HE (unit: mm)**

